# INTERNATIONAL SEARCH REPORT

International application No. PCT/CN2004/000931

A. CLASSIFICATION OF SUBJECT MATTER							
IPC <sup>7</sup> B25J 13/08, A47L 9/28, G05D 1/02							
According to International Patent Classification (IPC) or to both national classification and IPC							
B. FIELDS	B. FIELDS SEARCHED						
Minimum do	Minimum documentation searched (classification system followed by classification symbols)						
IPC 7 B25J 13/08, A47L 9/00 9/28, G05D 1/02, G01B 11/00, G01C 22/02							
Documentation	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Chinese Invention 1985-2004, Chinese Utility Models 1985-2004							
Electronic da	ta base consulted during the international search (name	of data base and, where practicable, sear	ch terms used)				
WPI EPODOC PAJ CNPAT: grid infrared opening wheel cleaning robot 棚格 开口 红外线 轮 清洁							
C. DOCUM	MENTS CONSIDERED TO BE RELEVANT						
Category*	Citation of document, with indication, where ap		Relevant to claim No.				
A	CN,A,1284177 (SOLAR & ROBOTICS) 14.Feb, whole the Documer	1					
A	US,A,5551119 (Firma Fedag) 03.Sep,1996 (03. whole the Documer	1					
Α	WO,A,02075469 (AKTIEBOLAGET ELECTROLU whole the Documen	1					
	listed in the continuation of Day C. N	7 See natent family anney					
☐ Furthe	r documents are listed in the continuation of Box C.						
<ul> <li>Special categories of cited documents:</li> <li>"A" document defining the general state of the art which is not considered to be of particular relevance</li> </ul>		"T" later document published after the international filing dat or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention					
	r application or patent but published on or after the ational filing date		document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person				
which	nent which may throw doubts on priority claim (S) or n is cited to establish the publication date of another on or other special reason (as specified)	an inventive step when the docum					
"O" docu	ment referring to an oral disclosure, use, exhibition or means	document is combined with one of					
	ment published prior to the international filing date ter than the priority date claimed	skilled in the art "&" document member of the same p					
Date of the	actual completion of the international search	Date of mailing of the international sea					
10.Jan,2005(10.01.05) 17 · FEB 2005 (1 7 · 0 2 · 2 0 0 5)							
Name and mailing address of the ISA/		Authorized officer  Zhang Liquid  Telephone No. 86-10-6208546	SEP FOT				
I dominio							
Form PCT/ISA /210 (second sheet) (January 2004)							

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/CN2004/000931

CN1284177A	14-02-01	AU1327899A	16-06-99	
		EP1049964A	08-11-00	
a manage of the manage		_ KR2001032583A	25-04-01	-
		JP2001525567T	11-12-01	
-		DE69804253E	18-04-02	
		US6389329 B1	14-05-02	
		ES2172936T	01-10-02	
US5551119 A	03-09-96	DE4343432 A	18-08-94	
		FR2699392 A	24-06-94	
		. IT1265281B	31-10-96	
WO02075469A	26-09-02	SE0100925A	16-09-02	
		BR0208112A	02-03-04	
		EP1368715A	10-12-03	

## 国际检索报告

国际申请号

PCT/CN2004/000931

#### A. 主题的分类

 $IPC^7$ B25J 13/08, A47L 9/28, G05D 1/02

按照国际专利分类表(IPC)或者同时按照国家分类和 IPC 两种分类

### B. 检索领域 \_

检索的最低限度文献(标明分类系统和分类号)

IPC 7 B25J 13/08, A47L 9/00 9/28, G05D 1/02, G01B 11/00, G01C 22/02

包含在检索领域中的除最低限度文献以外的检索文献

中国专利发明申请的公开文本和实用新型的审定公告,从 1985 年开始

在国际检索时查阅的电子数据库(数据库的名称,和使用的检索词(如使用))

WPI EPODOC PAJ CNPAT: grid infrared opening wheel cleaning robot 棚格 开口 红外线 轮 清洁

#### C. 相关文件

A CN,A,1284177(阳光及自动化公司) 14.2 月 2001(14.02.01)全文 A US,A,5551119(Firma Fedag) 03.9 月 1996(03.09.96)全文 WO,A,02075469(AKTIEBOLAGET ELECTROLUX) 02.9 月 2002(26.09.02)全文	型*	引用文件,必要时,指明相关段落	相关的权利要求
A WO,A,02075469 (AKTIEBOLAGET ELECTROLUX)	. c	CN,A,1284177(阳光及自动化公司) 14.2 月 2001(14.02.01)全文	1
	.   τ	US,A,5551119 (Firma Fedag) 03.9 月 1996 (03.09.96) 全文	1
02.9 月 2002(26.09.02)全文	.   🔻	WO,A,02075469 (AKTIEBOLAGET ELECTROLUX)	1
		02.9 月 2002 (26.09.02) 全文	
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### □ 其余文件在 C 栏的续页中列出。

#### ☑ 见同族专利附件。

- \* 引用文件的具体类型:
- "A"认为不特别相关的表示了现有技术一般状态的文件
- "E" 在国际申请日的当天或之后公布的在先申请或专利
- "L"可能对优先权要求构成怀疑的文件,为确定另一篇 引用文件的公布日而引用的或者因其他特殊理由而引 用的文件
- "O" 涉及口头公开、使用、展览或其他方式公开的文件
- "P" 公布日先于国际申请日但迟于所要求的优先权日的文件
- "T" 在申请日或优先权日之后公布,与申请不相抵触,但为了 理解发明之理论或原理的在后文件
- "X" 特别相关的文件,单独考虑该文件,认定要求保护的 发明不是新颖的或不具有创造性
- "Y" 特别相关的文件,当该文件与另一篇或者多篇该类文件 结合并且这种结合对于本领域技术人员为显而易见时, 要求保护的发明不具有创造性
- "&" 同族专利的文件

#### 国际检索实际完成的日期

10.1 月 2005(10.01.05)

国际检索报告邮寄日期 17 · 2月 200年71 7 · 0 2 · 2 00 5

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传真号: (86-10)62019451

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# 国际检索报告 关于同族专利的信息

国际申请号 PCT/CN2004/000931

检索报告中引用的 专利文件	公布日期	同族专利	公布日期
CN1284177 A	14-02-01	AU1327899A	16-06-99
		EP1049964A	08-11-00
		KR2001032583A	25-04-01
		JP2001525567T	11-12-01
		DE69804253E	18-04-02
		US6389329 B1	14-05-02
		ES2172936T	01-10-02
US5551119 A	03-09-96	DE4343432 A	18-08-94
		FR2699392 A	24-06-94
		IT1265281B	31-10-96
WO02075469 A	26-09-02	SE0100925A	16-09-02
		BR0208112A	02-03-04
		EP1368715A	10-12-03
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